DEWENWILS PTD04

DEWENWILS PTD04 Pool Pump Timer Instruction Manual
Model: PTD04

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your DEWENWILS PTD04 Outdoor Digital Timer Box. This device is designed to automate the control of high-power outdoor appliances such as pool pumps, water heaters, pool filters, and landscape lighting. Please read this manual thoroughly before installation and use to ensure safe and efficient operation.

2. SAFETY INFORMATION

WARNING: Risk of Electric Shock. More than one disconnect switch may be required to de-energize the device before servicing. For supply connections, use copper wire AWG 8-14 suitable for 90°C (194°F) or higher. Always close the door after use.

- Always disconnect power at the circuit breaker before installing or servicing the timer.
- Installation should be performed by a qualified electrician in accordance with all local and national electrical codes.
- Do not immerse the timer in water. This product is rated IP44 for outdoor use, meaning it is protected against solid objects larger than 1mm and splashing water from any direction.
- Ensure all connections are secure and properly insulated.
- Verify the voltage and current ratings of your appliance are compatible with the timer's specifications.

3. PRODUCT FEATURES

- **Flexible Scheduling:** Up to 12 ON/OFF programs with 7-day repeating or single-day settings.
- **Multiple Modes:** Includes Always ON/OFF, AUTO ON/OFF, and Daylight Saving Time (DST) adjustments.
- **Simplified Wiring:** Designed for straightforward installation without complex jumper steps.
- **Power-Off Backup:** Internal battery maintains clock and program settings for up to 6 months during power outages.
- **Durable & Weather-Resistant:** 40A 3HP capacity, 240V single or dual device support, resin PC core, flame-retardant insulation, and IP44 waterproof rating. Operates reliably from -40°F to 140°F.
- **Wide Compatibility:** Suitable for pool pumps, water heaters, pool filters, spas, irrigation systems, and landscape lighting.
- **ETL Listed:** Certified for safety and quality.

Image: Key features of the DEWENWILS PTD04 Pool Pump Timer, highlighting its high power capacity and ETL certification.
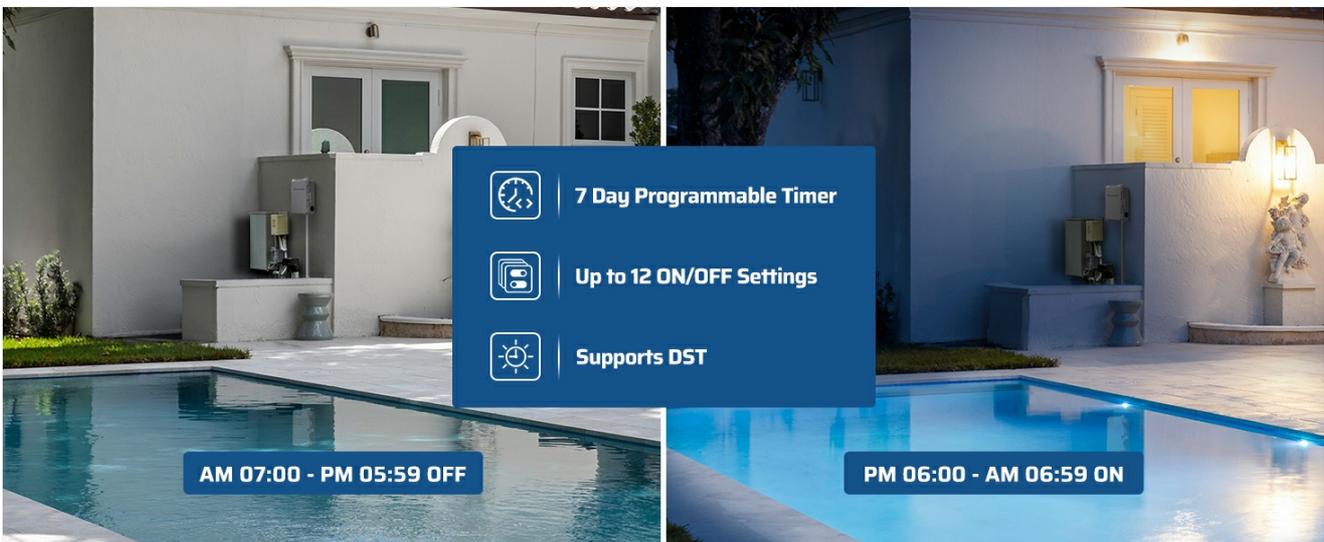

Image: The timer's weatherproof design, suitable for extreme temperatures and outdoor conditions.

4. PRODUCT OVERVIEW AND COMPONENTS

Image: Internal view of the timer with key components labeled for identification.

The DEWENWILS PTD04 timer features an intuitive design for easy programming and monitoring. Key components include:

- **Display Screen:** Shows current time, day, and programming status.

- **Setting Knob:** Used to navigate menu options and confirm selections.
- **Adjustment Knob:** Used to adjust time and program settings.
- **Reset Button:** Resets the timer to factory defaults.
- **Power Indicator:** Illuminates when power is supplied to the timer.
- **Load Indicator:** Illuminates when the connected appliance is receiving power.
- **Knockouts:** Pre-drilled holes for electrical conduit entry.
- **Terminal Blocks:** Secure points for wiring connections.

5. SPECIFICATIONS

Specification	Value
Model Number	PTD04
Input Voltage	240VAC
Current Rating	40A
Horsepower Rating	3HP
Number of ON/OFF Programs	Up to 12
Operating Temperature	-40°F to 140°F (-40°C to 60°C)
Waterproof Rating	IP44
Product Dimensions	4"D x 6"W x 7"H (approx.)
Item Weight	1.92 pounds
Certifications	ETL Listed

6. INSTALLATION

Important: Ensure power is disconnected at the main circuit breaker before beginning installation. This device must be installed by a qualified electrician.

6.1 Mounting the Timer Box

1. Choose a suitable outdoor location for mounting, ensuring it is easily accessible for programming and maintenance, and protected from direct impact.
2. Use appropriate screws and anchors (not included) to securely mount the timer box to a wall or post.

6.2 Wiring Instructions

The PTD04 timer is designed for simplified wiring to control one 240VAC load. Refer to the wiring diagrams below for proper connection.
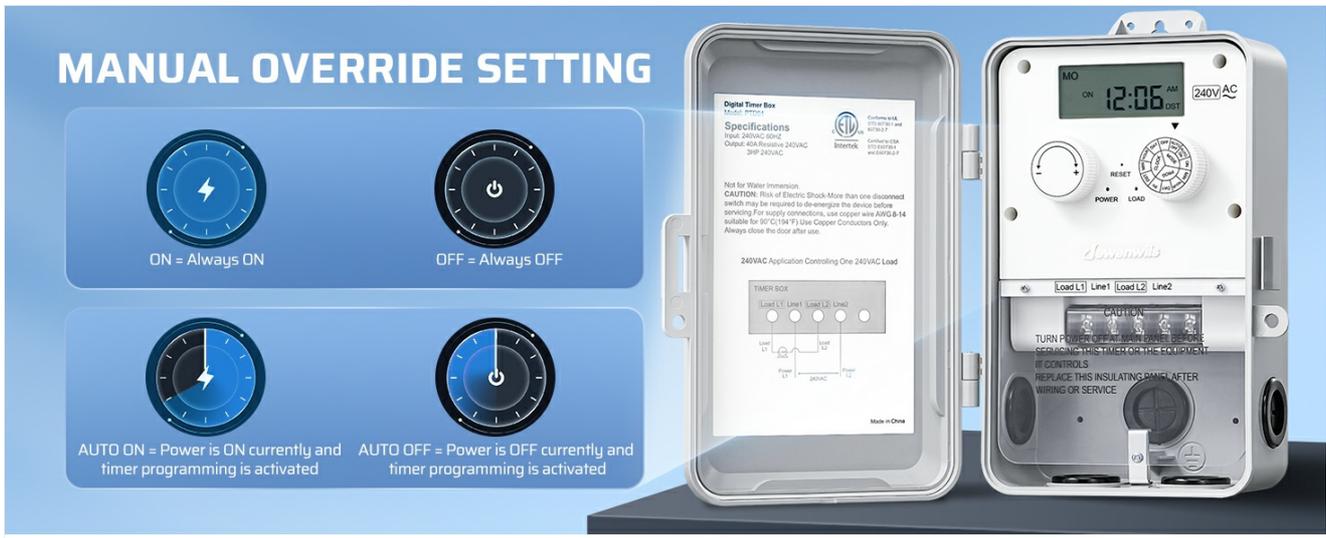
Image: Simplified wiring for controlling a single 240VAC load.

Image: Detailed wiring connections for a 240VAC load.

Image: Wiring diagram for connecting the timer to a hot water heater.

1. Open the timer box cover.
2. Remove the appropriate knockouts for your wiring.
3. Connect the incoming 240VAC power lines (L1 and L2) to the designated 'Line 1' and 'Line 2' terminals.
4. Connect the load wires (L1 and L2) from your appliance (e.g., pool pump, water heater) to the 'Load 1' and 'Load 2' terminals.
5. Ensure all wire connections are tight and secure. Use copper conductors only, AWG 8-14.
6. Replace the insulating panel and close the timer box cover securely.

7. OPERATING INSTRUCTIONS

7.1 Initial Setup: Setting Current Time and Day

1. After connecting power, the display will show a flashing time.
2. Use the **Adjustment Knob** (usually labeled with + and -) to set the current hour and minute.
3. Press the **Setting Knob** (often labeled 'CLOCK' or 'SET') to confirm the time and move to day setting.

4. Use the **Adjustment Knob** to select the current day of the week (MO, TU, WE, TH, FR, SA, SU).

5. Press the **Setting Knob** again to save and exit the time setting mode.

7.2 Programming ON/OFF Times

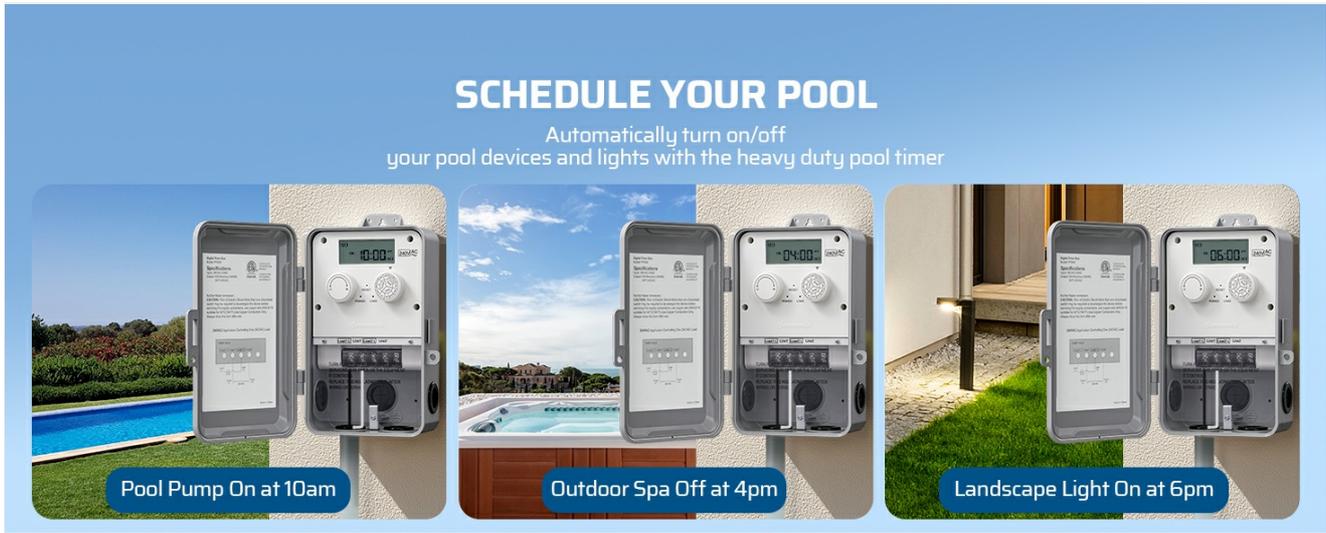The timer supports up to 12 ON/OFF programs. Each program can be set for specific days or a 7-day cycle.

Image: Overview of timer programming capabilities, including modes and battery backup.

1. Press the **Setting Knob** repeatedly until 'PROG' or 'P1 ON' appears on the display.

2. Use the **Adjustment Knob** to set the desired ON time for Program 1.

3. Press the **Setting Knob** to confirm and move to day selection. Use the **Adjustment Knob** to select the days for this program (e.g., MO-SU for everyday, or specific days).

4. Press the **Setting Knob** to confirm and move to 'P1 OFF'.

5. Use the **Adjustment Knob** to set the desired OFF time for Program 1.

6. Press the **Setting Knob** to confirm. You can then proceed to Program 2 (P2 ON/OFF) and so on, up to 12 programs.

7. After setting all desired programs, press the **Setting Knob** until the display returns to the current time.

7.3 Manual Override Settings

The timer offers manual override options to temporarily change the operating mode without affecting programmed settings.

Image: Explanation of manual override modes.

Rotate the mode knob (usually labeled 'MODE') to select one of the following:

- **ALWAYS ON:** The connected appliance will remain continuously ON, overriding all programmed settings.
- **ALWAYS OFF:** The connected appliance will remain continuously OFF, overriding all programmed settings.
- **AUTO ON:** The appliance is currently ON, and the timer programming is activated. It will follow the next programmed OFF event.
- **AUTO OFF:** The appliance is currently OFF, and the timer programming is activated. It will follow the next programmed ON event.

7.4 Daylight Saving Time (DST) Adjustment

The timer includes a DST function. Refer to the specific instructions on the timer's display or included quick start guide for activating and deactivating DST mode, which typically involves a simple button press to adjust the time by one hour.

8. MAINTENANCE

- **Cleaning:** Wipe the exterior of the timer box with a damp cloth. Do not use abrasive cleaners or immerse the unit in water.
- **Battery Backup:** The internal rechargeable battery provides backup for settings during power outages. No user maintenance is required for this battery. If the timer consistently loses settings after short power interruptions, the battery may need professional servicing.
- **Inspection:** Periodically inspect the wiring connections and the integrity of the timer box for any signs of damage or wear. Ensure the cover is always securely closed to maintain its IP44 rating.

9. TROUBLESHOOTING

Problem	Possible Cause	Solution
Timer display is blank.	No power supply.	Check circuit breaker and wiring connections. Ensure power is restored.
Appliance does not turn ON/OFF as programmed.	Incorrect program settings. Timer is in manual override mode (ALWAYS ON/OFF). Incorrect current time/day setting.	Verify all ON/OFF programs are set correctly, including days of the week. Ensure the mode knob is set to 'AUTO ON' or 'AUTO OFF'. Check and correct the current time and day.
Timer loses settings after power outage.	Internal backup battery depleted or faulty.	Allow the timer to remain powered for 24 hours to recharge the internal battery. If the issue persists, contact customer support.
Display shows erratic behavior.	Electrical interference or internal fault.	Try resetting the timer using the Reset button. If the problem continues, disconnect power and contact customer support.

10. WARRANTY AND SUPPORT

DEWENWILS products are designed for reliability and performance. This product comes with a standard manufacturer's warranty against defects in materials and workmanship. For specific warranty details, please refer to the warranty card included with your product or visit the official DEWENWILS website.

If you encounter any issues or have questions regarding your DEWENWILS PTD04 Pool Pump Timer, please contact DEWENWILS customer support for assistance. Contact information can typically be found on the product packaging or the brand's official website.